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(54) Qsound surround synthesis from stereo

(57) The inventive mechanism produces multiple output signals 31, 32, 41, 42, 51, 52 from a two-channel stereo input signal 11, 12. The mechanism produces a first pair of output signals 31, 32 which retain the monaural information in the stereo input signal. The first pair of signals 31, 32 each comprise a combination of one of the input channels and filtered signal produced from

a difference of both input channels 11, 12. The mechanism produces a second pair of output signals 41, 42 which lacks the monaural information. The second pair of output signals 41, 42 each comprise a combination of one of the input channels and an inverse filtered signal produced from a difference of both input channels. Q-filters 34, 43, 44 are used to provide the various filtered signals.

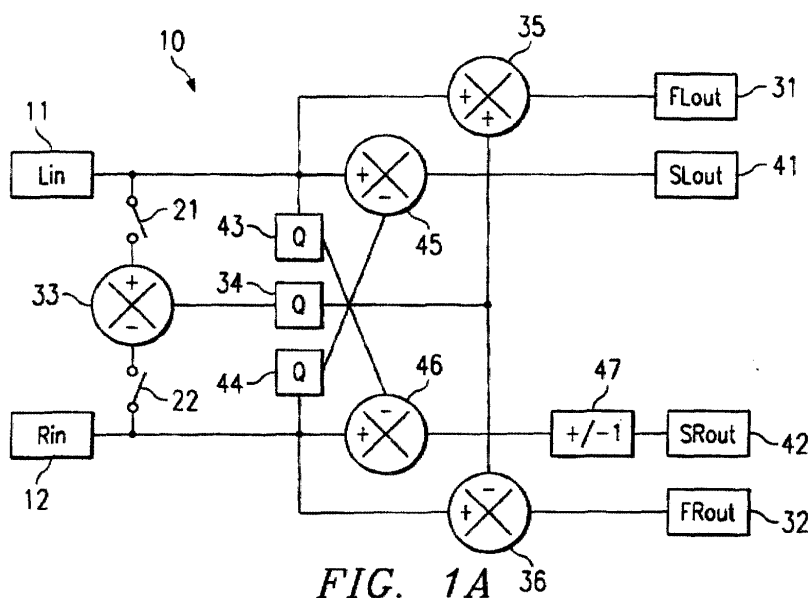


FIG. 1A 36



European Patent
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EUROPEAN SEARCH REPORT

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EP 99 30 2418

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The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 2 July 2002	Examiner Masche, C
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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